

FLUID MECHANICS

Choose at least TWO	AME 536A Fundamentals of Fluid Mechanics	AME 531 Numerical Methods in Fluid Mechanics and Heat Transfer	Choose at least ONE
	AME 536B Fundamentals of Fluid Mechanics	AME 561 Finite Element Methods	
	AME 536C Compressible Fluid Dynamics		

SOLID MECHANICS

Choose at least TWO	AME 564A Mechanics of Deformable Solids	AME 561 Finite Element Methods	Choose at least ONE
	AME 564B Mechanics of Deformable Solids	AME 563 Advanced Finite Element Analysis	
	AME 562 Composite Materials		

THERMAL SCIENCES

Must take BOTH	AME 530 Advanced Thermodynamics/Radiation	AME 531 Numerical Methods in Fluid Mechanics and Heat Transfer	Choose at least ONE
	AME 532 Conduction/Convective Transport Phenomena	AME 561 Finite Element Methods	

DYNAMICS AND CONTROL SYSTEMS

Chose at least TWO	AME 550 Advanced Dynamics	AME 521 Spacecraft Optimal Estimation	Choose at least ONE if only two taken from list on left
	AME 553 Computational Multi-body Dynamics	AME 552 Planar Multi-body Dynamics with Applications	
	AME 558 Intro to Advanced Control Theory	AME 554 Spacecraft Attitude Dynamics and Control	
	AME 560 Advanced Vibration	AME 555 System Identification	
	AME 559 Advanced Astrodynamics	AME 556 Nonlinear and Optimal Control	
		ECE 542 Digital Control	